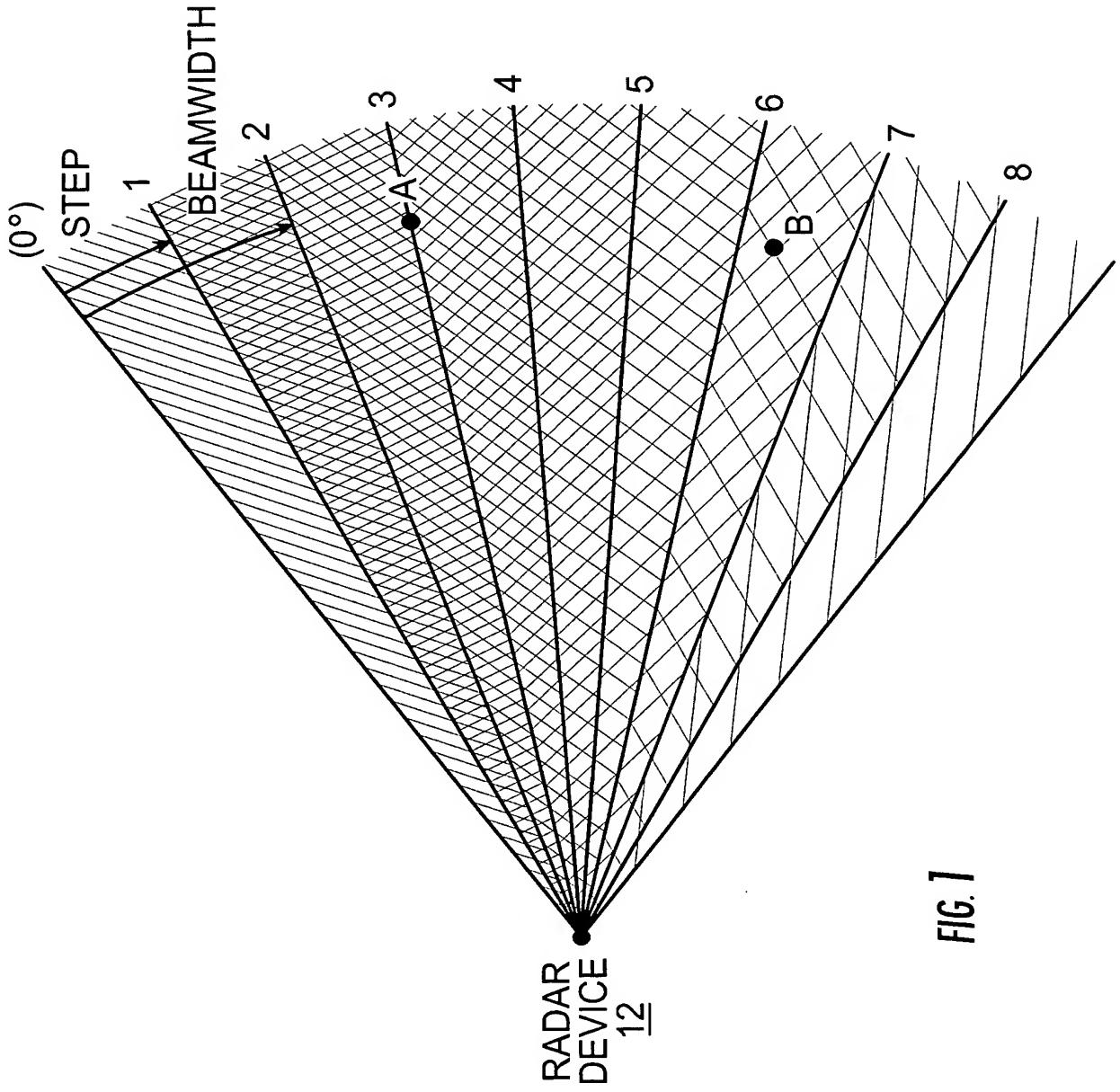

FIG. 1

RADAR DEVICE DATA		
BEAM POSITION	ANGULAR POSITION	TARGET DATA VALUE
1	0.9°	0.1
2	1.8°	0.4
3	2.7°	0.9
4	3.6°	0.4
5	4.5°	0.3
6	5.4°	0.8
7	6.3°	0.6
8	7.2°	0.2

FIG. 2

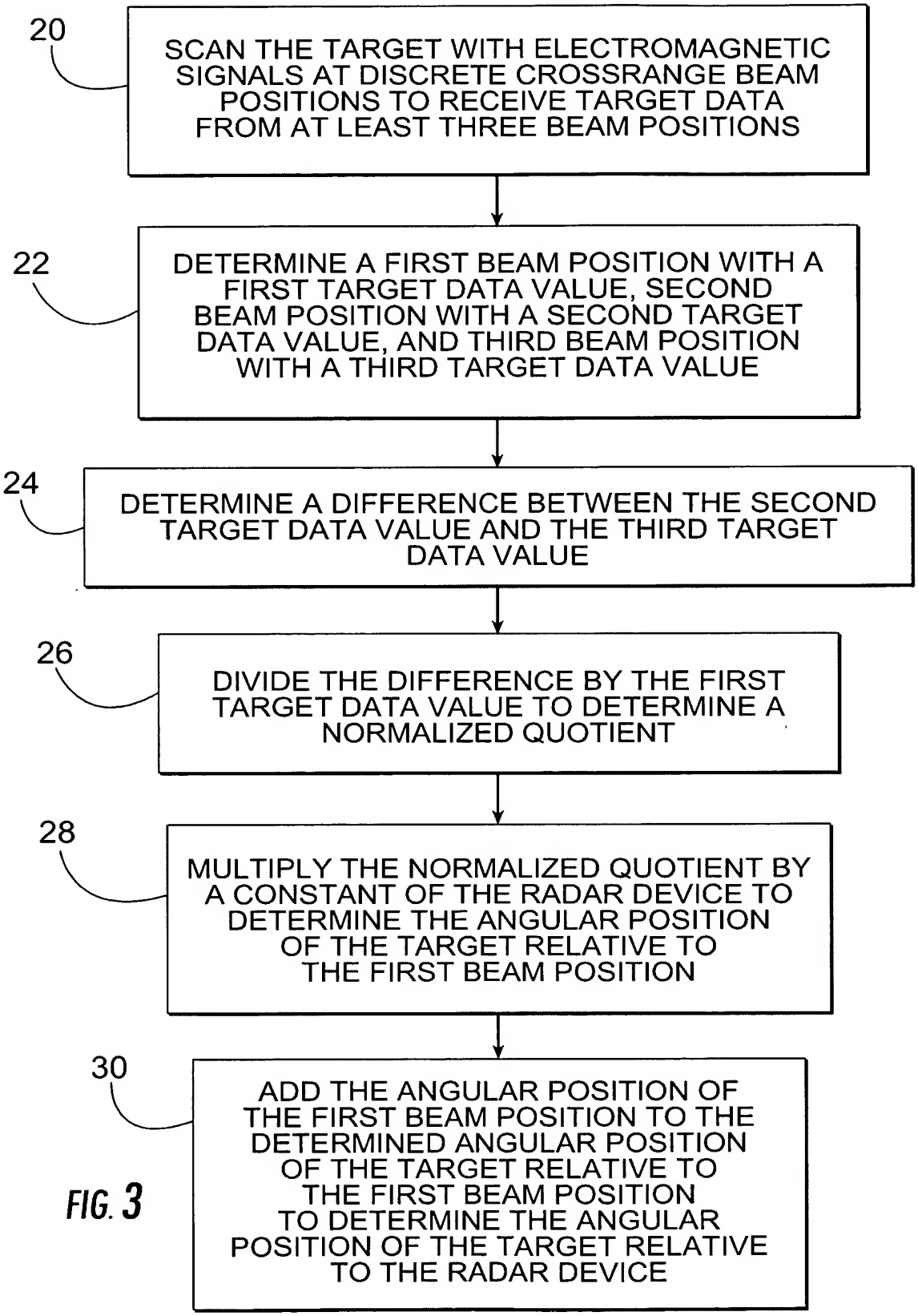
20
SCAN THE TARGET WITH ELECTROMAGNETIC SIGNALS AT DISCRETE CROSSRANGE BEAM POSITIONS TO RECEIVE TARGET DATA FROM AT LEAST THREE BEAM POSITIONS
22
DETERMINE A FIRST BEAM POSITION WITH A FIRST TARGET DATA VALUE, SECOND BEAM POSITION WITH A SECOND TARGET DATA VALUE, AND THIRD BEAM POSITION WITH A THIRD TARGET DATA VALUE
24
DETERMINE A DIFFERENCE BETWEEN THE SECOND TARGET DATA VALUE AND THE THIRD TARGET DATA VALUE
26
DIVIDE THE DIFFERENCE BY THE FIRST TARGET DATA VALUE TO DETERMINE A NORMALIZED QUOTIENT
28
MULTIPLY THE NORMALIZED QUOTIENT BY A CONSTANT OF THE RADAR DEVICE TO DETERMINE THE ANGULAR POSITION OF THE TARGET RELATIVE TO THE FIRST BEAM POSITION
30
ADD THE ANGULAR POSITION OF THE FIRST BEAM POSITION TO THE DETERMINED ANGULAR POSITION OF THE TARGET RELATIVE TO THE FIRST BEAM POSITION TO DETERMINE THE ANGULAR POSITION OF THE TARGET RELATIVE TO THE RADAR DEVICE

FIG. 3